

**SYSTEM AND METHOD PROVIDING A SPATIAL LOCATION CONTEXT****ABSTRACT**

A software and hardware architecture operating across a local or wide area  
5 network providing an integral spatial location context. Such spatial location contexts  
form the foundation for location-enabled systems and transactions by integrating an  
extensible plurality of spatial and time reference systems and encodings; an accurate and  
precise metadata model; persistent identification; and a flexible digital security model.  
This application also teaches the use of such location-enabled systems and transactions to  
10 create methods and systems for automation, transaction processing, integration, and  
exchange of spatially relevant information over a communications network like the  
Internet.